

Listing of Claims

This Listing of Claims will replace all prior versions and Listing of Claims in the present Application. Applicant had previously restricted Claims 11-20 and they are not being examined in the present Application. Applicant now adds new claims 21-30 in the present Application.

1. (Currently Amended) A manual braking system for wheels of a wheelchair comprising:
caliper type brakes [mountable] mounted to said wheelchair;
a manual brake actuator [mountable] mounted to said wheelchair;
a braking cable connected from said caliper type brakes of said manual braking actuator over a pulley, said pulley [mountable on said wheelchair and] providing substantially equal force on each of said caliper type brakes[.]; and
said manual brake actuator providing an incremental braking force to said caliper type brakes.
2. (Original) The manual braking system for wheels of a wheelchair as recited in claim 1 wherein the axis of said pulley is displaceable.
3. (Original) The manual braking system for wheels of a wheelchair as recited in Claim 1 further comprising disks mountable to said wheels of said wheelchair, whereby said caliper type brakes are positioned to exert a braking force on said disks.
4. (Original) The manual braking system for wheels of a wheelchair as recited in Claim 3 wherein said manual brake actuator provides a variable braking force to said pulley.
5. (Currently Amended) The manual braking system for wheels of a wheelchair as recited in Claim [4] 1 wherein said manual brake actuator is a lever pivotally mounted to said wheelchair.
6. (Original) The manual braking system for wheels of a wheelchair as recited in Claim 5 further comprising:

a linking element connected to both said pulley and said lever and causing said pulley to displace when said lever is rotated.

7. (Currently Amended) The manual braking system for wheels of a wheelchair as recited in Claim 6 further comprising:

a mounting bracket fixedly mounted to said wheelchair, said lever being pivotally mounted to said mounting bracket;

a guiding slot in said mounting bracket;

an [elongated] elongated mounting element extendable through said guiding slot, said pulley, and with said linking element, said mounting element being slidable within said guiding slot and said pulley and said linking element being rotatable thereon.

~~8. (Cancelled) The manual braking system for wheels of a wheelchair as recited in Claim 7 wherein said variable braking force is incremental.~~

9. (Currently Amended) The manual braking system for wheels of a wheelchair as recited in Claim [8] 1 further comprising an adjustable locking means for said lever arm for providing said incremental braking force.

10. (Currently Amended) The manual braking system for wheels of a wheelchair as recited in Claim [9] 1 wherein said adjustable locking means comprises:

a plurality of notches radially spaced around a pivot point of said lever arm;

a plunger mountable to said mounting bracket, said plunger being insertable into said notches to lock said lever arm in a rotated position.

11. (Withdrawn) A wheelchair having a manual braking system comprising:

a frame;

a seat having a bottom portion and back portion mounting within said frame;

wheels rotatably mounted on said frame;

caliper type brakes on each of said wheels;

braking cable connectable from said caliper type brakes to a manual brake actuator mounted over a pulley on said frame;

said pulley providing substantially equal force on each of said caliper type brakes;

12. (Withdrawn) The wheelchair having a manual braking system as recited in Claim 11 further comprising of disk mountable adjacent said wheels and rotatable therewith wherein said caliper type brakes are positioned to exert a braking force on said disks.

13 (Withdrawn) A wheelchair having a manual braking system as recited in Claim 11 wherein said manual actuator provides a variable braking force to said pulley.

14. (Withdrawn) The manual wheelchair having a manual braking system as recited in Claim 13 wherein said manual brake actuator is a lever.

15. (Withdrawn) The manual wheelchair having a manual braking system as recited in Claim 14 further comprising a linking element pivotally connected to both said pulley and said lever causing said pulley to displace when said lever arm is rotated.

16. (Withdrawn) The manual wheelchair having a manual braking system as recited in Claim 15 further comprising:

a mounting bracket fixedly mounted to said frame, said lever being pivotally mounted to said mounting bracket;

a guiding slot in said mounting bracket;

an elongated mounting element extendable through said guiding slot, said pulley, and said linking element, said mounting element being slidable within said guiding slot, and with said pulley and said linking element being rotatable thereon.

17. (Withdrawn) A manual wheelchair having a manual braking system as recited in Claim 16 wherein said mounting element is a screw.

18. (Withdrawn) A wheelchair having a manual braking system as recited in Claim 17 wherein said variable braking force is incremental.

19. (Withdrawn) A wheelchair having a manual braking system as recited in Claim 18 further comprising:

an adjustable locking means for said lever arm for providing said incremental braking force.

20. (Withdrawn) A wheelchair having a manual braking system as recited in Claim 19 wherein said adjustable locking means comprises:

a plurality of notches radially spaced around a pivot point of said lever arm;

a plunger mountable to said mounting bracket, said plunger being insertable into said notches to lock said lever arm in a rotated position.

21. (New) A manual braking system for wheels of a wheelchair comprising:

caliper type brakes mounted to said wheelchair;

a manual brake actuator mounted to said wheelchair;

a braking cable connected from said caliper type brakes to said manual braking actuator over a pulley, said pulley providing substantially equal force on each of said caliper type brakes; and

said manual brake actuator being lockable in a braking position.

22. (New) The manual braking system as recited in Claim 21 wherein said manual brake actuator provides an incremental braking force to said caliper type brakes.

23. (New) The manual braking system as recited in Claim 21 wherein said manual brake

actuator provides a variable braking force to said caliper type brakes.

24. (New) The manual braking system as recited in Claim 21 wherein the axis of said pulley is displaceable.

25. (New) The manual braking system as recited in Claim 21 further comprising disks mounted to said wheels of said wheelchair, whereby said caliper type brakes are positioned to exert a braking force on said disks.

26. (New) The manual braking system as recited in Claim 21 wherein said manual brake actuator is a lever pivotally mounted to said wheelchair.

27. (New) The manual braking system as recited in Claim 26 further comprising a linking element connected to both said pulley and said lever and causing said pulley to displace when said lever is rotated.

28. (New) The manual braking system as recited in Claim 27 further comprising:

a mounting bracket fixedly mounted to said frame, said lever being pivotally mounted to said mounting bracket;

a guiding slot in said mounting bracket; and

an elongated mounting element extendable through said guiding slot, said pulley and said linking element, said mounting element being slidable within said guiding slot and with said pulley and said linking element being rotatable therein.

29. (New) The manual braking system as recited in Claim 22 further comprising an adjustable locking means for said lever arm for providing said incremental said locking force.

30. (New) The manual braking system as recited in Claim 29 wherein said adjustable locking means comprises:

a plurality of notches radially spaced around a pivot point of said lever arm;

a plunger mountable to said mounting bracket, said plunger being insertable into said notches to lock said lever arm in a rotated position.